

R Giles Harrison

List of Publications by Year in descending order

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211
papers

7,315
citations

71061

41
h-index

74108

75
g-index

237
all docs

237
docs citations

237
times ranked

4936
citing authors

#	ARTICLE	IF	CITATIONS
1	Cosmic Rays, Clouds, and Climate. <i>Science</i> , 2002, 298, 1732-1737.	6.0	506
2	Factors contributing to the summer 2003 European heatwave. <i>Weather</i> , 2004, 59, 217-223.	0.6	454
3	Ion-aerosol-cloud processes in the lower atmosphere. <i>Reviews of Geophysics</i> , 2003, 41, .	9.0	303
4	Cosmic Ray Induced Ion Production in the Atmosphere. <i>Space Science Reviews</i> , 2008, 137, 149-173.	3.7	232
5	An Overview of Earth's Global Electric Circuit and Atmospheric Conductivity. <i>Space Science Reviews</i> , 2008, 137, 83-105.	3.7	192
6	Energetic Particle Influence on the Earth's Atmosphere. <i>Space Science Reviews</i> , 2015, 194, 1-96.	3.7	183
7	Atmospheric waves and global seismoacoustic observations of the January 2022 Hunga eruption, Tonga. <i>Science</i> , 2022, 377, 95-100.	6.0	170
8	The predictability of the extratropical stratosphere on monthly time scales and its impact on the skill of tropospheric forecasts. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2015, 141, 987-1003.	1.0	162
9	The Carnegie Curve. <i>Surveys in Geophysics</i> , 2013, 34, 209-232.	2.1	149
10	Are cold winters in Europe associated with low solar activity?. <i>Environmental Research Letters</i> , 2010, 5, 024001.	2.2	148
11	The mysterious long-range transport of giant mineral dust particles. <i>Science Advances</i> , 2018, 4, eaau2768.	4.7	147
12	Atmospheric electricity coupling between earthquake regions and the ionosphere. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2010, 72, 376-381.	0.6	135
13	Recent advances in global electric circuit coupling between the space environment and the troposphere. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2012, 90-91, 198-211.	0.6	130
14	Electrification of volcanic plumes. <i>Surveys in Geophysics</i> , 2006, 27, 387-432.	2.1	120
15	The Global Atmospheric Electrical Circuit and Climate. <i>Surveys in Geophysics</i> , 2004, 25, 441-484.	2.1	115
16	The charging of radioactive aerosols. <i>Journal of Aerosol Science</i> , 1992, 23, 481-504.	1.8	106
17	Results from the CERN pilot CLOUD experiment. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 1635-1647.	1.9	96
18	Atmospheric electricity in different weather conditions. <i>Weather</i> , 2007, 62, 277-283.	0.6	93

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19	Meteorological effects of the eclipse of 11 August 1999 in cloudy and clear conditions. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2003, 459, 353-371.	1.0	83
20	Self-charging of the Eyjafjallajökull volcanic ash plume. Environmental Research Letters, 2010, 5, 024004.	2.2	79
21	Electrical Charging of Volcanic Plumes. Space Science Reviews, 2008, 137, 399-418.	3.7	76
22	Applications of Electrified Dust and Dust Devil Electrodynamics to Martian Atmospheric Electricity. Space Science Reviews, 2016, 203, 299-345.	3.7	72
23	Fair weather criteria for atmospheric electricity measurements. Journal of Atmospheric and Solar-Terrestrial Physics, 2018, 179, 239-250.	0.6	72
24	A global atmospheric electricity monitoring network for climate and geophysical research. Journal of Atmospheric and Solar-Terrestrial Physics, 2019, 184, 18-29.	0.6	71
25	Reconstruction of geomagnetic activity and near-Earth interplanetary conditions over the past 167 yr – Part 4: Near-Earth solar wind speed, IMF, and open solar flux. Annales Geophysicae, 2014, 32, 383-399.	0.6	60
26	Enhancement of cloud formation by droplet charging. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2008, 464, 2561-2573.	1.0	59
27	Mid-nineteenth century smoke concentrations near London. Atmospheric Environment, 2002, 36, 4037-4043.	1.9	57
28	Experimental determination of layer cloud edge charging from cosmic ray ionisation. Geophysical Research Letters, 2010, 37, .	1.5	57
29	Cloud Formation and the Possible Significance of Charge for Atmospheric Condensation and Ice Nuclei. Space Science Reviews, 2000, 94, 381-396.	3.7	56
30	Observations of Saharan dust layer electrification. Environmental Research Letters, 2011, 6, 014001.	2.2	56
31	Tropospheric New Particle Formation and the Role of Ions. Space Science Reviews, 2008, 137, 241-255.	3.7	55
32	Electromagnetic Atmosphere-Plasma Coupling: The Global Atmospheric Electric Circuit. Space Science Reviews, 2012, 168, 363-384.	3.7	55
33	Urban smoke concentrations at Kew, London, 1898–2004. Atmospheric Environment, 2006, 40, 3327-3332.	1.9	54
34	Ions in the Terrestrial Atmosphere and Other Solar System Atmospheres. Space Science Reviews, 2008, 137, 107-118.	3.7	53
35	Investigating Earth's Atmospheric Electricity: A Role Model for Planetary Studies. Space Science Reviews, 2008, 137, 11-27.	3.7	53
36	Twentieth century secular decrease in the atmospheric potential gradient. Geophysical Research Letters, 2002, 29, 5-1-5-4.	1.5	47

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37	Airâ€œearth current measurements at Kew, London, 1909â€œ1979. <i>Atmospheric Research</i> , 2005, 76, 49-64.	1.8	47
38	Solar modulation in surface atmospheric electricity. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2010, 72, 176-182.	0.6	46
39	Twentieth-century atmospheric electrical measurements at the observatories of Kew, Eskdalemuir and Lerwick. <i>Weather</i> , 2003, 58, 11-19.	0.6	45
40	Atmospheric electric field measurements in urban environment and the pollutant aerosol weekly dependence. <i>Environmental Research Letters</i> , 2014, 9, 114025.	2.2	44
41	Surface measurement system for the atmospheric electrical vertical conduction current density, with displacement current density correction. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2008, 70, 1373-1381.	0.6	42
42	Top-down solar modulation of climate: evidence for centennial-scale change. <i>Environmental Research Letters</i> , 2010, 5, 034008.	2.2	42
43	Long-term changes in atmospheric electrical parameters observed at Nagycenk (Hungary) and the UK observatories at Eskdalemuir and Kew. <i>Annales Geophysicae</i> , 2003, 21, 2193-2200.	0.6	41
44	Charge distributions and coagulation of radioactive aerosols. <i>Journal of Aerosol Science</i> , 1995, 26, 1207-1225.	1.8	39
45	A computer-controlled Gerdien atmospheric ion counter. <i>Review of Scientific Instruments</i> , 2000, 71, 3037-3041.	0.6	38
46	Reconstruction of geomagnetic activity and near-Earth interplanetary conditions over the past 167 yr â€œ Part 1: A new geomagnetic data composite. <i>Annales Geophysicae</i> , 2013, 31, 1957-1977.	0.6	38
47	Stratiform cloud electrification: comparison of theory with multiple inâ€œcloud measurements. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2016, 142, 2679-2691.	1.0	38
48	Retrospective cloud determinations from surface solar radiation measurements. <i>Atmospheric Research</i> , 2008, 90, 54-62.	1.8	37
49	Water vapour changes and atmospheric cluster ions. <i>Atmospheric Research</i> , 2007, 85, 199-208.	1.8	36
50	Detection of Lower Tropospheric Responses to Solar Energetic Particles at Midlatitudes. <i>Physical Review Letters</i> , 2014, 112, 225001.	2.9	36
51	Observing Forbush decreases in cloud at Shetland. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2010, 72, 1408-1414.	0.6	34
52	On the microphysical effects of observed cloud edge charging. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2015, 141, 2690-2699.	1.0	34
53	Scavenging of electrified radioactive aerosol. <i>Atmospheric Environment</i> , 2001, 35, 5817-5821.	1.9	33
54	Reconstruction of geomagnetic activity and near-Earth interplanetary conditions over the past 167 yr â€œ Part 2: A new reconstruction of the interplanetary magnetic field. <i>Annales Geophysicae</i> , 2013, 31, 1979-1992.	0.6	32

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55	A new South American network to study the atmospheric electric field and its variations related to geophysical phenomena. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2014, 120, 70-79.	0.6	32
56	Vertical profile measurements of lower troposphere ionisation. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2014, 119, 203-210.	0.6	31
57	A self-calibrating programable mobility spectrometer for atmospheric ion measurements. <i>Review of Scientific Instruments</i> , 2001, 72, 3467-3469.	0.6	30
58	Columnar resistance changes in urban air. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2005, 67, 763-773.	0.6	29
59	Discrimination between cosmic ray and solar irradiance effects on clouds, and evidence for geophysical modulation of cloud thickness. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2008, 464, 2575-2590.	1.0	29
60	Vertical current flow through extensive layer clouds. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2009, 71, 2040-2046.	0.6	29
61	ENHANCED LOCALISED CHARGING OF RADIOACTIVE AEROSOLS. <i>Journal of Aerosol Science</i> , 2000, 31, 363-378.	1.8	28
62	Tropospheric New Particle Formation and the Role of Ions. <i>Space Sciences Series of ISSI</i> , 2008, , 241-255.	0.0	28
63	Brief Communication: Earthquake "cloud coupling through the global atmospheric electric circuit. <i>Natural Hazards and Earth System Sciences</i> , 2014, 14, 773-777.	1.5	28
64	Modulation of UK lightning by heliospheric magnetic field polarity. <i>Environmental Research Letters</i> , 2014, 9, 115009.	2.2	28
65	Lag-time effects on a naturally ventilated large thermometer screen. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2011, 137, 402-408.	1.0	26
66	Energetic Charged Particles Above Thunderclouds. <i>Surveys in Geophysics</i> , 2013, 34, 1-41.	2.1	26
67	Cosmic Ray Induced Ion Production in the Atmosphere. <i>Space Sciences Series of ISSI</i> , 2008, , 149-173.	0.0	25
68	Natural ventilation effects on temperatures within Stevenson screens. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2010, 136, 253-259.	1.0	25
69	The solar eclipse: a natural meteorological experiment. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016, 374, 20150225.	1.6	25
70	An antenna electrometer system for atmospheric electrical measurements. <i>Review of Scientific Instruments</i> , 1997, 68, 1599-1603.	0.6	24
71	A noise-rejecting current amplifier for surface atmospheric ion flux measurements. <i>Review of Scientific Instruments</i> , 1997, 68, 3563-3565.	0.6	23
72	Computationally efficient expressions for the collision efficiency between electrically charged aerosol particles and cloud droplets. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2006, 132, 1717-1731.	1.0	23

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73	Diagnosing eclipse-induced wind changes. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2012, 468, 1839-1850.	1.0	23
74	Note: Programmable data acquisition system for research measurements from meteorological radiosondes. Review of Scientific Instruments, 2012, 83, 036106.	0.6	23
75	Lightning as a space-weather hazard: UK thunderstorm activity modulated by the passage of the heliospheric current sheet. Geophysical Research Letters, 2015, 42, 9624-9632.	1.5	23
76	Saharan dust plume charging observed over the UK. Environmental Research Letters, 2018, 13, 054018.	2.2	23
77	Challenges in coupling atmospheric electricity with biological systems. International Journal of Biometeorology, 2021, 65, 45-58.	1.3	23
78	Aerosol modulation of small ion growth in coastal air. Atmospheric Environment, 2005, 39, 5876-5883.	1.9	22
79	Cosmic ray and air conductivity profiles retrieved from early twentieth century balloon soundings of the lower troposphere. Journal of Atmospheric and Solar-Terrestrial Physics, 2007, 69, 515-527.	0.6	22
80	Evidence for global circuit current flow through water droplet layers. Journal of Atmospheric and Solar-Terrestrial Physics, 2009, 71, 1219-1221.	0.6	22
81	Cloud base height and cosmic rays. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2011, 467, 2777-2791.	1.0	22
82	Electron acceleration above thunderclouds. Environmental Research Letters, 2013, 8, 035027.	2.2	22
83	Reconstruction of geomagnetic activity and near-Earth interplanetary conditions over the past 167 yr – Part 3: Improved representation of solar cycle 11. Annales Geophysicae, 2014, 32, 367-381.	0.6	22
84	Observed atmospheric electricity effect on clouds. Environmental Research Letters, 2009, 4, 014003.	2.2	21
85	A lightweight balloon-carried cloud charge sensor. Review of Scientific Instruments, 2009, 80, 014501.	0.6	21
86	Heliospheric timescale identified in surface atmospheric electricity. Geophysical Research Letters, 2007, 34, .	1.5	20
87	Planetary Atmospheric Electricity. Space Science Reviews, 2008, 137, 5-10.	3.7	20
88	An Overview of Earth's Global Electric Circuit and Atmospheric Conductivity. Space Sciences Series of ISSI, 2008, , 83-105.	0.0	20
89	Inferring convective responses to El Niño with atmospheric electricity measurements at Shetland. Environmental Research Letters, 2011, 6, 044028.	2.2	20
90	Mathematical Simulation of the Ionospheric Electric Field as a Part of the Global Electric Circuit. Surveys in Geophysics, 2019, 40, 1-35.	2.1	20

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91	Aerosol-induced correlation between visibility and atmospheric electricity. <i>Journal of Aerosol Science</i> , 2012, 52, 121-126.	1.8	19
92	Influence of short-term solar disturbances on the fair weather conduction current. <i>Journal of Space Weather and Space Climate</i> , 2014, 4, A26.	1.1	19
93	Atmospheric Electrification in Dusty, Reactive Gases in the Solar System and Beyond. <i>Surveys in Geophysics</i> , 2016, 37, 705-756.	2.1	19
94	Pressure anomalies from the <scp>January</scp> 2022 <scp>Hunga Tongaâ€“Hunga Ha'apai</scp> eruption. <i>Weather</i> , 2022, 77, 87-90.	0.6	19
95	Aurora diaries. <i>Astronomy and Geophysics</i> , 2005, 46, 4.31-4.34.	0.1	18
96	Further signatures of long-term changes in atmospheric electrical parameters observed in Europe. <i>Annales Geophysicae</i> , 2005, 23, 1987-1995.	0.6	18
97	Inexpensive multichannel digital data acquisition system for a meteorological radiosonde. <i>Review of Scientific Instruments</i> , 2005, 76, 026103.	0.6	18
98	In Situ Atmospheric Turbulence Measurement Using the Terrestrial Magnetic Fieldâ€“A Compass for a Radiosonde. <i>Journal of Atmospheric and Oceanic Technology</i> , 2006, 23, 517-523.	0.5	18
99	Profiles of Ion and Aerosol Interactions in Planetary Atmospheres. <i>Space Science Reviews</i> , 2008, 137, 193-211.	3.7	18
100	Fair weather atmospheric electricity. <i>Journal of Physics: Conference Series</i> , 2011, 301, 012001.	0.3	18
101	Space weather driven changes in lower atmosphere phenomena. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2013, 98, 22-30.	0.6	18
102	Note: A balloon-borne accelerometer technique for measuring atmospheric turbulence. <i>Review of Scientific Instruments</i> , 2015, 86, 016109.	0.6	18
103	Electrical sensing of the dynamical structure of the planetary boundary layer. <i>Atmospheric Research</i> , 2018, 202, 81-95.	1.8	18
104	Multi-station synthesis of early twentieth century surface atmospheric electricity measurements for upper tropospheric properties. <i>Advances in Geosciences</i> , 0, 13, 17-23.	12.0	18
105	Lord Kelvin's atmospheric electricity measurements. <i>History of Geo- and Space Sciences</i> , 2013, 4, 83-95.	0.1	18
106	In situ calibration of atmospheric air conductivity instruments. <i>Review of Scientific Instruments</i> , 2006, 77, 016103.	0.6	17
107	Air-earth current density measurements at Lerwick; implications for seasonality in the global electric circuit. <i>Atmospheric Research</i> , 2008, 89, 181-193.	1.8	17
108	Balloon-borne disposable radiometer for cloud detection. <i>Review of Scientific Instruments</i> , 2012, 83, 025111.	0.6	17

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109	Ventilation effects on humidity measurements in thermometer screens. Quarterly Journal of the Royal Meteorological Society, 2012, 138, 1114-1120.	1.0	17
110	Eclipse-induced wind changes over the British Isles on the 20 March 2015. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20150224.	1.6	17
111	Saharan dust electrification perceived by a triangle of atmospheric electricity stations in Southern Portugal. Journal of Electrostatics, 2016, 84, 106-120.	1.0	17
112	Long-range correlations in measurements of the global atmospheric electric circuit. Journal of Atmospheric and Solar-Terrestrial Physics, 2004, 66, 1127-1133.	0.6	16
113	Effect of the troposphere on surface neutron counter measurements. Advances in Space Research, 2005, 35, 1484-1491.	1.2	16
114	Lightning-Induced Extensive Charge Sheets Provide Long Range Electrostatic Thunderstorm Detection. Physical Review Letters, 2013, 111, 045003.	2.9	16
115	Determining solar effects in Neptune's atmosphere. Nature Communications, 2016, 7, 11976.	5.8	16
116	First In Situ Observations of Gaseous Volcanic Plume Electrification. Geophysical Research Letters, 2019, 46, 3532-3539.	1.5	16
117	A balloon-carried electrometer for high-resolution atmospheric electric field measurements in clouds. Review of Scientific Instruments, 2001, 72, 2738-2741.	0.6	15
118	Thermopile radiometer signal conditioning for surface atmospheric radiation measurements. Review of Scientific Instruments, 2006, 77, 116105.	0.6	15
119	Observations of the plume generated by the December 2005 oil depot explosions and prolonged fire at Buncefield (Hertfordshire, UK) and associated atmospheric changes. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2007, 463, 1153-1177.	1.0	15
120	Electrical signature in polar night cloud base variations. Environmental Research Letters, 2013, 8, 015027.	2.2	15
121	Coordinated weather balloon solar radiation measurements during a solar eclipse. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20150221.	1.6	15
122	Femtoampere current reference stable over atmospheric temperatures. Review of Scientific Instruments, 2000, 71, 3231-3232.	0.6	14
123	The cloud chamber and CTR Wilson's legacy to atmospheric science. Weather, 2011, 66, 276-279.	0.6	14
124	Note: Active optical detection of cloud from a balloon platform. Review of Scientific Instruments, 2014, 85, 066104.	0.6	14
125	An atmospheric electrical voltmeter follower. Review of Scientific Instruments, 1996, 67, 2636-2638.	0.6	13
126	Meteorological radiosonde interface for atmospheric ion production rate measurements. Review of Scientific Instruments, 2005, 76, 126111.	0.6	13

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127	Scorch marks from the sky. <i>Weather</i> , 2011, 66, 39-41.	0.6	13
128	Note: Atmospheric point discharge current measurements using a temperature-compensated logarithmic current amplifier. <i>Review of Scientific Instruments</i> , 2013, 84, 066103.	0.6	13
129	Atmospheric electrical field measurements near a fresh water reservoir and the formation of the lake breeze. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 68, 31592.	0.8	13
130	Evaluating stratiform cloud base charge remotely. <i>Geophysical Research Letters</i> , 2017, 44, 6407-6412.	1.5	13
131	The Potential Impact of Upper Stratospheric Measurements on Sub-seasonal Forecasts in the Extra-Tropics. , 2019, , 889-907.		13
132	Fine wire thermometer for air temperature measurement. <i>Review of Scientific Instruments</i> , 2001, 72, 1539.	0.6	12
133	A wide-range electrometer voltmeter for atmospheric measurements in thunderstorms and disturbed meteorological conditions. <i>Review of Scientific Instruments</i> , 2002, 73, 482-483.	0.6	12
134	Atmospheric Electricity Influencing Biogeochemical Processes in Soils and Sediments. <i>Frontiers in Physiology</i> , 2019, 10, 378.	1.3	12
135	Evaluation of ARM tethered-balloon system instrumentation for supercooled liquid water and distributed temperature sensing in mixed-phase Arctic clouds. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 6845-6864.	1.2	12
136	Using a network of temperature lidars to identify temperature biases in the upper stratosphere in ECMWF reanalyses. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 6079-6092.	1.9	12
137	Aerosol modulation of the optical and electrical properties of urban air. <i>Atmospheric Environment</i> , 2005, 39, 5205-5212.	1.9	11
138	Electrical properties of surface atmospheric air at Eskdalemuir, 1909â€“1911. <i>Atmospheric Research</i> , 2007, 84, 182-188.	1.8	11
139	Two daily smoke maxima in eighteenth century London air. <i>Atmospheric Environment</i> , 2009, 43, 1364-1366.	1.9	11
140	Measuring ionizing radiation in the atmosphere with a new balloonâ€”borne detector. <i>Space Weather</i> , 2017, 15, 663-672.	1.3	11
141	Precipitation Modification by Ionization. <i>Physical Review Letters</i> , 2020, 124, 198701.	2.9	11
142	Extensive layer clouds in the global electric circuit: their effects on vertical charge distribution and storage. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2020, 476, 20190758.	1.0	11
143	Multimode electrometer for atmospheric ion measurements. <i>Review of Scientific Instruments</i> , 2000, 71, 4683.	0.6	10
144	Reply to Comment by E. R. Williams on â€œTwentieth century secular in the atmospheric gradientâ€•. <i>Geophysical Research Letters</i> , 2003, 30, .	1.5	10

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145	Note: Geiger tube coincidence counter for lower atmosphere radiosonde measurements. Review of Scientific Instruments, 2013, 84, 076103.	0.6	10
146	The National Eclipse Weather Experiment: use and evaluation of a citizen science tool for schools outreach. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20150223.	1.6	10
147	Fair weather electric field meter for atmospheric science platforms. Journal of Electrostatics, 2020, 107, 103489.	1.0	10
148	Demonstration of a Remotely Piloted Atmospheric Measurement and Charge Release Platform for Geoen지니어ing. Journal of Atmospheric and Oceanic Technology, 2021, 38, 63-75.	0.5	10
149	Krypton-85 pollution and atmospheric electricity. Atmospheric Environment, 1994, 28, 637-648.	1.9	9
150	Fine wire resistance thermometer amplifier for atmospheric measurements. Review of Scientific Instruments, 2006, 77, 116112.	0.6	9
151	Ions in the Terrestrial Atmosphere and Other Solar System Atmospheres. Space Sciences Series of ISSI, 2008, , 107-118.	0.0	9
152	In situ detection of electrified aerosols in the upper troposphere and stratosphere. Atmospheric Chemistry and Physics, 2013, 13, 11187-11194.	1.9	9
153	The National Eclipse Weather Experiment: an assessment of citizen scientist weather observations. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20150220.	1.6	9
154	Radioactive aerosol charging with spatially varying ion concentrations. Journal of Aerosol Science, 1994, 25, 623-637.	1.8	8
155	A double Gerdien instrument for simultaneous bipolar air conductivity measurements on balloon platforms. Review of Scientific Instruments, 2008, 79, 084502.	0.6	8
156	Comparison of balloon-carried atmospheric motion sensors with Doppler lidar turbulence measurements. Review of Scientific Instruments, 2009, 80, 026108.	0.6	8
157	Atmospheric electric fields during the Carrington flare. Astronomy and Geophysics, 2014, 55, 5.32-5.37.	0.1	8
158	Rapid indirect solar responses observed in the lower atmosphere. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2020, 476, .	1.0	8
159	Investigating Earth's Atmospheric Electricity: a Role Model for Planetary Studies. Space Sciences Series of ISSI, 2008, , 11-27.	0.0	8
160	Behind the curve: a comparison of historical sources for the Carnegie curve of the global atmospheric electric circuit. History of Geo- and Space Sciences, 2020, 11, 207-213.	0.1	8
161	Ultrasonic detection of atmospheric humidity variations. Review of Scientific Instruments, 2001, 72, 1910.	0.6	7
162	Surface determination of the air-earth electrical current density using co-located sensors of different geometry. Review of Scientific Instruments, 2006, 77, 066104.	0.6	7

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163	A three-dimensional magnetometer for motion sensing of a balloon-carried atmospheric measurement package. <i>Review of Scientific Instruments</i> , 2007, 78, 124501.	0.6	7
164	Electrical Charging of Volcanic Plumes. <i>Space Sciences Series of ISSI</i> , 2008, , 399-418.	0.0	7
165	Solar-Driven Variation in the Atmosphere of Uranus. <i>Geophysical Research Letters</i> , 2017, 44, 12,083.	1.5	7
166	Note: A self-calibrating wide range electrometer for in-cloud measurements. <i>Review of Scientific Instruments</i> , 2017, 88, 126109.	0.6	7
167	Quantifying uncertainties in climate data: measurement limitations of naturally ventilated thermometer screens. <i>Environmental Research Communications</i> , 2021, 3, 061005.	0.9	7
168	Consistent dust electrification from Arabian Gulf sea breezes. <i>Environmental Research Letters</i> , 2020, 15, 084050.	2.2	7
169	Enhanced attraction between drops carrying fluctuating charge distributions. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2022, 478, 20210714.	1.0	7
170	Self-charging of radioactive aerosols. <i>Journal of Aerosol Science</i> , 1991, 22, S175-S178.	1.8	6
171	A calorimeter to detect freezing in supercooled water droplets. <i>Review of Scientific Instruments</i> , 1998, 69, 4004-4005.	0.6	6
172	Temperature-compensated meteorological barometer. <i>Review of Scientific Instruments</i> , 2000, 71, 1909-1910.	0.6	6
173	Anthropogenic snowfall events in the UK: examples of urban weather modification?. <i>Weather</i> , 2009, 64, 277-280.	0.6	6
174	Point discharge current measurements beneath dust devils. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2016, 150-151, 55-60.	0.6	6
175	Calculating Atmospheric Gravity Wave Parameters from Infrasound Measurements. , 2019, , 701-719.		6
176	Compact cosmic ray detector for unattended atmospheric ionization monitoring. <i>Review of Scientific Instruments</i> , 2010, 81, 124501.	0.6	5
177	Balloon measurements of the vertical ionization profile over southern Israel and comparison to mid-latitude observations. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2016, 149, 87-92.	0.6	5
178	Shear-Induced electrical changes in the base of thin layer-cloud. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2019, 145, 3667-3679.	1.0	5
179	Characteristics of Desert Precipitation in the UAE Derived from a Ceilometer Dataset. <i>Atmosphere</i> , 2021, 12, 1245.	1.0	5
180	The coagulation of radioactive aerosols. <i>Journal of Aerosol Science</i> , 1992, 23, 145-148.	1.8	4

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